## **AMENDMENTS TO THE CLAIMS**

- 160. (Currently amended) An array of transfected eukaryotic cells comprising a surface having an array of at least 96 locations, said array having a density of at least 100 locations per square centimeter, wherein each location comprises eukaryotic cells that are transfected with one or more defined nucleic acid molecules.
- 161. (Previously Presented) The array of claim 160, wherein the one or more defined nucleic acid molecules are non-viral.
- 162. (Previously Presented) The array of claim 160, wherein, in at least one location, the one or more defined nucleic acid molecules are contained in a vector.
- 163. (Previously Presented) The array of claim 160, wherein, in at least one location, the one or more defined nucleic acid molecules are expressed in the eukaryotic cells.
- 164. (Previously Presented) The array of claim 160, wherein, in at least one location, the one or more defined nucleic acid molecules encode polypeptides that are expressed in the eukaryotic cells.
- 165. (Previously Presented) The array of claim 160, wherein the cells are disposed on the surface at a density of  $0.3 \times 10^5$ /cm<sup>2</sup> to  $3.0 \times 10^5$ /cm<sup>2</sup>.

- 166. (Previously Presented) The array of claim 160, wherein, in at least one location, the one or more defined nucleic acid molecules are DNA.
- 167. (Previously Presented) The array of claim 160, wherein, in at least one location, the eukaryotic cells are transfected with at least two different nucleic acid molecules.
- 168. (Previously Presented) The array of claim 160, wherein the locations have a density of at least 1000 different locations per square centimeter.
- 169. (Previously Presented) The array of claim 168, wherein the locations have a density of at least 10,000 different locations per square centimeter.
- 170. (Previously Presented) The array of claim 168, wherein the locations have a density of at least 100,000 different locations per square centimeter.
- 171. (Previously Presented) The array of claim 168, wherein the locations have a density of at least 400 different locations per square centimeter.
- 172. (Previously Presented) The array of claim 168, wherein the locations have a density of at least 700 different locations per square centimeter.

- 173. (Previously Presented) The array of claim 168, wherein the locations have a density of at least 289 different locations per square centimeter.
- 174. (Previously Presented) The array of claim 168, wherein the locations have a density of at least 625 different locations per square centimeter.
- 175. (Previously Presented) The array of any of claims 160 and 168-174, wherein the locations have a density of at most 1,000,000 different locations per square centimeter.
- 176. (Previously Presented) The array of claim 160, wherein, in at least one location, the one or more defined nucleic acid molecules encode a double-stranded RNA molecule.
- 177. (Previously Presented) The array of claim 160, wherein, in at least one location, the one or more defined nucleic acid molecules has a modified base or backbone.

178-236. (Cancelled)

237. (New) The array of claim 160, wherein said defined nucleic acid molecules comprises at least 10 different sequences.

- 238. (New) The array of claim 237, wherein said defined nucleic acid molecules comprises at least 100 different sequences.
- 239. (New) The array of claim 238, wherein said defined nucleic acid molecules comprises at least 1000 different sequences.
- 240. (New) The array claim 160, said array comprising locations in which eukaryotic cells are co-transfected with two or more different defined nucleic acid molecules.